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CLASSIFICATION CONFIDENTIAL

CENTRAL INTELLIGENCE AGENCY 25X1

INFORMATION REPORT

REPORT NO. [redacted]

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SUBJECT	Scientific Technical Cooperation between the DDR and Czechoslovakia	NO. OF PAGES	5
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THIS IS UNEVALUATED INFORMATION

[redacted]

25X1 [redacted] Scientific Technical Cooperation [redacted] slovakia and Poland. They were procured from the files of the Department for Research and Technology of the Ministry of Machine Construction, Berlin. These resolutions were passed in the middle of 1951. They show that the cooperation between Czechoslovakia and the Soviet Zone of Germany included the exchange of the results of experimental research between individual plants.

2. High Frequency Generators.

The Germans will send experts to the Czechoslovakian People's Democracy to work out the calculations and technical designs for rotating high frequency generators.

3. The Electric "Schaffler Pillen "(sic)

The Germans will supply an analysis of this resistance wire by 15 October 1951 and determine the production possibilities in the Soviet Zone of Germany. The Czechoslovakian People's Democracy will supply a sample of the "Schaffler Pillen" by that time.

4. Surface Treatment of Iron and of All Kinds of Metals.

25X1 [redacted] following is requested:

Three experts will be allowed to study this problem in enterprises of the Soviet Zone of Germany for about four weeks and to select the technical reports on the following items:

Experimental findings regarding phosphatizing, electroplating, chrome-plating (Inchromierung), Schoop processing (Schooperen), and lacquering.
Apparatus and equipment as used in large enterprises.
Formulas for the liquids used.
Apparatus for testing metal surfaces.
Drawings of large installations for the continuous processing method of surface treatment.
[redacted]

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The Germans will turn over the selected documents at a date to be set during the inspection.

5. Metals for Vacuum Technique (Vacuum -Technik)

The Germans will supply information regarding the production methods and technological descriptions regarding the tungsten and molybdenum wire production by 15 October 1951.

6. Powder Iron Cores (Pulvereisenkerne) for Light-Current or Signal Engineering (Schwachstromtechnik).

The Germans will supply the technical data on the production of powder iron cores for light-current engineering two months after the production installations have been inspected by Czechoslovakian experts.

7. Polarized Siemens Relays.

The Germans will supply the following technical documents by 1 January 1952:

a. A complete set of technical drawings and records of the production technique.

b. Specifications for the acceptance of material (Materialuebernahme)(especially of the contacts and springs, of the magnetic core, etc.)

c. Specifications for mechanical and electrical adjustment of these relays.

d. Method of acceptance and types of efficiency tests made before acceptance.

8. Twelve-Channel (zwoelfkanalige) Transmission Systems for Wide-Band Cables

The Germans will supply the technical documents regarding the production of twelve-channel transmission systems for wide-band cables by 1 February 1952. The documents must include the technical drawings, specifications of material, and acceptance standards of material.

9. Dry Cuprox Rectifiers.

Within the first half year of 1952 the Germans will supply the following technical documents regarding the production of dry Cuprox rectifiers designed for modulators of twelve and multiple-channel lines and higher frequencies (between 1 and 2 megacycles):

a. Specifications for the acceptance of raw material (copper, silver, lead).

b. Production techniques, including detailed information on all working processes.

c. The production recordswith specifications of all measurements and drawings of all the necessary production equipment and apparatus for the operating tests during the production process.

d. The method of heat treatment (aging).

e. The method of sorting and evaluating production.

f. The final and acceptance tests.

g. The dimensions and electrical standards.

10. Installation of Telephone Lines.

The following is requested:
In the beginning of October 1951 two experts will be allowed to inspect the developments and to select the documents regarding the telephone installation and equipment of an automatic center for interurban traffic and for zonal telephone meters (Zonensprechzaehler).

The date for delivery of the documents selected will be determined during the inspection.

11. Technical Designs of Gliders.

The Czechs will supply the technical designs of the high-performance gliders "Lunak" (L 10) and "Kranich". They will also submit a report regarding the best Czechoslovakian glider models and the technical designs desired will be selected on the basis of this report.

12. Machines and Automatic Machines for the Mass Production of Shoes.

By 13 October 1951, the Czechs will deliver a report regarding the production methods for manufacturing leather and rubber shoes. Prospectus material and technical designs will be selected by German experts.

13. Power Shovels (Loeffelbagger).

By 1 November 1951, the Czechs will deliver the technical designs of the 1 cubicmeter, 1.5 cubicmeter and 2.5 cubicmeter power shovel models.

14. Hydraulic Forging Presses.

By 1 October 1951, the Czechs will deliver the technical and working drawings of hydraulic forging presses of 3,000 tons and 12,000 tons pressure. The Germans will send experts to select the documents for hydraulic presses of 6,000 tons and 2,100 tons pressure. These documents will be delivered at a date to be determined at the time of selection.

15. Special Devices and Special Machinery for the Production of Balls and Rolls and the Techniques of Roller and Ball Bearing Production.

The Germans will send experts to inspect and select all documents regarding

a. Roller and ball bearing production, and

b. The production of special devices and special machinery used in the production of these bearings.

The Czechs will hand over the required documents two months after selection.

16. Ball Bearing Tubes (Kugellagerrohre) for Ball Bearing Production.

By 1 November 1951, the Czechs will deliver a report regarding the technical processes and production installations, as well as a detailed list of directions.

17. Construction of High Voltage and Peak Voltage Install[redacted]

In re[redacted]
memo[redacted]
volta[redacted]
gard [redacted]

18. Tests of Gas-Blast Switches.

By 1 September 1951, the Czechs will investigate the possibilities of testing gas-blast switches, especially the 110 kv gas-blast switch, circuit-breaking capacity 2,500 MVA and the 110 kv gas-blast switch, circuit-breaking capacity 4,000 MVA, and will carry out the tests of gas-blast switches to be delivered by the Germans.

19. Electric Drive for the 85 Two-High Reversing Rolling Train.

The Czechs will deliver the previously selected drawings, by 1 September 1951.

20. High Tension Motors of 200 to 2,000 kw.

The Germans will send experts to inspect enterprises producing high tension motors of 200 to 2,000 kw A.C. and D.C. The Czechs will deliver the documents for the production equipment, the production facilities, and the test installations, as well as the technical designs for high tension motors of the following output:

200 kw
600 kw
1,000 kw
1,600 kw
2,000 kw at 500 , 1,000, and 1,500 revolutions per minute.

The documents for these motors will be delivered two months after selection, and the documents for the production equipment, production facilities, and test installations will be delivered four months after selection.

21. Condensed Steam Turbine Sets of 25 Mw (sic) and 55 MW Capacity.

By 30 December 1951, the Czechs will deliver a memorandum regarding the condensed steam turbine sets of 25 MW and 55 MW capacity in addition to a technical project (sic) and technical designs. The Germans will send two experts to Czechoslovakia to give advice on the production of condensed steam turbine sets below 25 MW capacity.

22. Testing Instructions for Electrical Equipment.

By 1 November 1951, the Czechs will supply the Czechoslovakian testing instructions and the available CEE testing instructions. The instructions particularly deal with cables and lines, installation material, low-voltage switch gears, transformers and rectifiers, storage batteries and galvanic elements and batteries.

23. Heavy-duty Slide Bearings.

The Czechs will send two experts to study production in competent enterprises of the Soviet Zone of Germany and to select the following documents.

a. The description of the complete technical process for the production of heavy-duty slide bearings with thinly applied slide coatings (Gleitschichten) - especially for the production of aircraft bearings.

b. The technical design of the bearing production installation.

c. The description of the method of applying the coating on the base (Art des Auftragens auf die Gleitgrundschicht).

d. The description of the metals and alloys used.

e. Data regarding the results attained.

f. The description of the complete technical process for the production of lead bronze and the use of ultra short sound waves in melting and casting lead bronze.

The Germans will deliver the documents four months after selection.

24. Production of Wire Cable Belts (Gurten)

The following is requested: An expert will be allowed to inspect the production and to select the technical documents regarding the endless, sewn, flat belts made of wire cables. The Germans will deliver the documentation three months after selection.

25. Elastic High Speed Couplings (Schnellauf-Kupplungen)

By 1 November 1951, the Germans will supply the technical designs for the elastic high speed couplings used to connect steam turbines with generators, turbine blowers and feed pumps, and to connect Diesel engines with the traction device of locomotives and ships.

26. Horizontal Forging Presses.

The following is requested: In December 1951 experts will be allowed to visit the Soviet Zone of Germany to give advice and mutual assistance in the technical design of horizontal forging presses. By 1 June 1952, the Germans will supply the technical designs for horizontal forging presses - especially for double hammering screw presses (Doppelschlagschraubenpressen).

27. The Production of Grinding Disks for Grinding at High Rim Speeds (zum Schleifen mittels grosser Randgeschwindigkeit)

The following is requested: Two experts will be allowed to inspect competent enterprises in the Soviet Zone of Germany and to select the documents regarding the production of grinding disks with a rim speed of about 100 meters per second. The documents must also include information on the use of materials and binding agents for the production of such grinding disks. The Germans will deliver the documents two months after selection.

28. Logarithmic Slide Rules.

The following is requested: An expert will be allowed to come to the Soviet Zone of Germany to study the production and to select the suitable documents. The Germans will deliver a preliminary project (Vorprojekt) by 1 September 1951. The technical project (sic) will be made 2 to 3 months after the Czechs have decided on the preliminary project. Also the technical designs will then be supplied.